Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A high-pressure discharge lamp with an asymmetrical discharge space ~~(2)~~ and/or an asymmetrical discharge vessel ~~(1)~~, wherein ~~the~~ a bottom surface ~~(10, 11)~~ that is lowermost in ~~the~~ an operational position of the lamp has a raised central first portion ~~10~~ which is surrounded by a relatively lowered second portion ~~11~~, whereby the discharge space ~~(2)~~ has a volume which is reduced by a given first factor in comparison with the volume of the discharge space of known mercury-containing discharge lamps, and wherein an obscuration of portions of ~~the~~ a luminous discharge arc ~~(21)~~ and/or of portions of ~~the~~ electrodes ~~(3)~~ by light-generating substances not evaporated in ~~the~~ an operational state is prevented in that ~~the~~ a quantity of the light-generating substances in the discharge space ~~(2)~~ is reduced by a second factor which is determined in dependence on ~~the~~ a value of the first factor and on ~~the~~ a distance, defined by the asymmetry, of the electrodes ~~(3)~~ to the bottom surface ~~(10, 11)~~ that is lowermost in the operational

position of the lamp, and wherein the volume of the discharge space ~~(2)~~ is approximately 18 µl.

2. (Currently Amended) ~~A~~ The high-pressure discharge lamp as claimed in claim 1, wherein the discharge space ~~(2)~~ does not contain mercury.

3. (Canceled)

4. (Currently Amended) ~~A~~ The high-pressure discharge lamp as claimed in ~~claim 3~~claim 1, wherein the quantity of light-generating substances is approximately 200 µg.

5. (Currently Amended) A high-pressure discharge lamp as claimed in ~~claim 4~~claim 1, wherein the bottom surface comprises a first portion ~~(10)~~ which is raised by approximately 1 mm with respect to a surrounding second portion ~~(11)~~.

6. (Currently Amended) ~~A~~ The high-pressure discharge lamp as claimed in claim 1, wherein the discharge space ~~(2)~~ contains a rare gas.

7. (Currently Amended) ~~A~~ The high-pressure discharge lamp as claimed in ~~claim 6~~claim 1, wherein the ~~rare gas is~~discharge space contains xenon with a xenon cold pressure of between approximately 8 bar and approximately 20 bar.

8. (Original) A lighting unit with a high-pressure gas discharge lamp as claimed in claim 1.

9. (Currently Amended) ~~A~~ The high-pressure discharge lamp as claimed in ~~claim 7~~claim 1, wherein the discharge space contains xenon with a xenon cold pressure ~~is~~ of between approximately 10 bar and approximately 15 bar.

10. (New) A high-pressure discharge lamp with an asymmetrical discharge space and/or an asymmetrical discharge vessel, wherein a bottom surface that is lowermost in an operational position of the lamp has a raised central first portion which is surrounded by a relatively lowered second portion, whereby the discharge space has a volume which is reduced by a given first factor in comparison with the volume of the discharge space of known mercury-containing

discharge lamps, and wherein an obscuration of portions of a luminous discharge arc and/or of portions of electrodes by light-generating substances not evaporated in an operational state is prevented in that a quantity of the light-generating substances in the discharge space is reduced by a second factor which is determined in dependence on a value of the first factor and on a distance, defined by the asymmetry, of the electrodes to the bottom surface that is lowermost in the operational position of the lamp.

11. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the discharge space does not contain mercury.

12. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the volume of the discharge space is approximately 18 µl.

13. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the quantity of light-generating substances is approximately 200 µg.

14. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the bottom surface comprises a first portion which is

raised by approximately 1 mm with respect to a surrounding second portion.

15. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the discharge space contains a rare gas.

16. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the discharge space contains xenon with a xenon cold pressure of between approximately 8 bar and approximately 20 bar.

17. (New) A lighting unit with a high-pressure gas discharge lamp as claimed in claim 10.

18. (New) The high-pressure discharge lamp as claimed in claim 10, wherein the discharge space contains xenon with a cold pressure of between approximately 10 bar and approximately 15 bar.